

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

UN-INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART B DoC REQUIREMENT

OF

Product Name: HSUPA USB Modem

Brand Name: ZTE

Model Name: MF110

Model Difference: N/A

Report No.: ER/2009/20014

Issue Date: Jun. 06, 2009

FCC Rule Part: Part 15 B, DoC

Prepared for: ZTE CORPORATION
 ZTE Plaza, Keji Road South, Hi-Tech
 Industrial Park, Nanshan District, Shenzhen,
 Guangdong, 518057, P.R.China

Prepared by: SGS Taiwan Ltd.
 Electronics & Communication Laboratory
 No. 134, Wu Kung Rd., Wuku Industrial
 Zone, Taipei County, Taiwan.



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VERIFICATION OF COMPLIANCE

Applicant: ZTE CORPORATION
 ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

Product Description: HSUPA USB Modem

Brand Name: ZTE

Model No.: MF110

Model Difference: N/A

File Number: ER/2009/20014

Date of test: Apr. 14, 2009 ~ Jun. 03, 2009

Date of EUT Receive: Apr. 14, 2009

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 :2003 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15B, DoC.

The test results of this report relate only to the tested sample identified in this report.

Test By:

Brian Chang

Date:

Jun. 06, 2009

Brian Chang / Engineer

Prepared By:

Gigi yeh

Date:

Jun. 06, 2009

Gigi Yeh / Clerk

Approved By:

Vincent Su

Date:

Jun. 06, 2009

Vincent Su / Manager

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Version

Version No.	Date	Description
00	Jun. 06, 2009	Initial creation of document

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Table of Contents

1.	GENERAL INFORMATION	5
1.1.	PRODUCT DESCRIPTION	5
1.2.	RELATED SUBMITTAL(S) / GRANT (S).....	6
1.3.	TEST METHODOLOGY	6
1.4.	TEST FACILITY	6
1.5.	SPECIAL ACCESSORIES	6
1.6.	EQUIPMENT MODIFICATIONS.....	6
2.	SYSTEM TEST CONFIGURATION	7
2.1.	EUT CONFIGURATION	7
2.2.	EUT EXERCISE.....	7
2.3.	TEST PROCEDURE	7
2.4.	LIMITATION.....	8
2.5.	CONFIGURATION OF TESTED SYSTEM	9
3.	SUMMARY OF TEST RESULTS.....	11
4.	DESCRIPTION OF TEST MODES.....	11
5.	CONDUCTED EMISSIONS TEST.....	12
5.1.	MEASUREMENT PROCEDURE:	12
5.2.	TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION).....	12
5.3.	MEASUREMENT EQUIPMENT USED:.....	15
5.4.	MEASUREMENT RESULT:	15
6.	RADIATED EMISSION TEST	18
6.1.	MEASUREMENT PROCEDURE	18
6.2.	TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION).....	18
6.3.	MEASUREMENT EQUIPMENT USED:.....	20
6.4.	FIELD STRENGTH CALCULATION.....	21
6.5.	MEASUREMENT RESULT:	22
	APPENDIX 1 PHOTOGRAPHS OF SET UP	28
	APPENDIX 2 PHOTOGRAPHS OF EUT	31
	APPENDIX 3 <u>LABELING REQUIREMENTS</u>	38

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1. GENERAL INFORMATION

1.1. Product Description

General:

Product Name:	HSUPA USB Modem
Brand Name:	ZTE
Model Name:	MF110
Model Difference:	N/A
Power Supply:	5V dc form USB Port.

GSM and WCDMA:

	Operating Frequency	Rated Power	
Cellular Phone Standards Frequency Range and Power:	GSM/GPRS/EDGE, 850, Class 12	824.2 MHz– 848.8 MHz	33 dBm
	GSM/GPRS/EDGE, 1900, Class 12	1850.2MHz – 1909.8MHz	30 dBm
	WCDMA/HSUPA/HSDPA Band II	1852.4MHz – 1907.6MHz	24 dBm
	WCDMA/HSUPA/HSDPA Band V	826.4MHz – 846.6MHz	24 dBm
	HSUPA data rate: uplink up to 2Mbps HSDPA data rate: downlink up to 7.2Mbps		
Type of Emission:	GSM850: 245KGXW / GSM1900: 246KGXW EDGE 850: 246KG7W / EDGE 1900: 250KG7W WCDMA Band II: 4M17F9W / WCDMA Band V: 4M19F9W HSUPA Band II: 4M19D7W / HSUPA Band V: 4M17D7W		
Hardware Version:	N/A		
Software Version:	N/A		
IMEI:	351790030003690		

This test report applies for GSM/GPRS/EDGE 850/1900 and WCDMA/HSDPA/HSUPA Bands II /V.

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1.2. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC Part15 Subpart B is authorized under DoC procedure.

1.3. Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4: 2003. Radiated testing was performed at an antenna to EUT distance 3 meters.

1.4. Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003. FCC Registration Number are: 990257 and 236194, Canada Registration Number: 4620A-1

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 29, Pau-Tou-Tsuo Valley Chia-Pau Tsuen, Linkou Hsiang, Taipei county, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 &10 meters) and FCC Registration Number: 94644

1.5. Special Accessories

Not available for this EUT intended for grant.

1.6. Equipment Modifications

Not available for this EUT intended for grant.

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2. System Test Configuration

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

The EUT was operated in the normal continuous transmitting.

2.3. Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 7 of ANSI C63.4: 2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna. according to the requirements in Section 8 of ANSI C63.4: 2003.

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2.4. Limitation

(1) Conducted Emission

According to section 15.107(a) Conducted Emission Limits is as following.

Frequency range MHz	Class B Limits dB (uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

(2) Radiated Emission

According to section 15.109(a) Radiated Emission Class B Limits is as following:

Frequency (MHz)	Field strength $\mu\text{V}/\text{m}$	Distance (m)	Field strength at 3m $\text{dB}\mu\text{V}/\text{m}$
30-88	100	3	40
88-216	150	3	43.5
216-960	200	3	46
Above 960	500	3	54

Standard	Date	Description
EN55022	2006	Limits and methods of measurement of radio interference characteristics of information technology equipment.

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EN55022 Limit:

Frequency range MHz	Limits dBuV/m (10m)
	Quasi-peak
30 to 230	30
230 to 1000	37

Remark: 1. Emission level in dBuV/m=20 log (uV/m)
 2. Measurement was performed at an antenna to the closed point of EUT distance of 3 meters.

2.5. Configuration of Tested System

Fig. 2-1 Configuration of Tested System (Data Link)

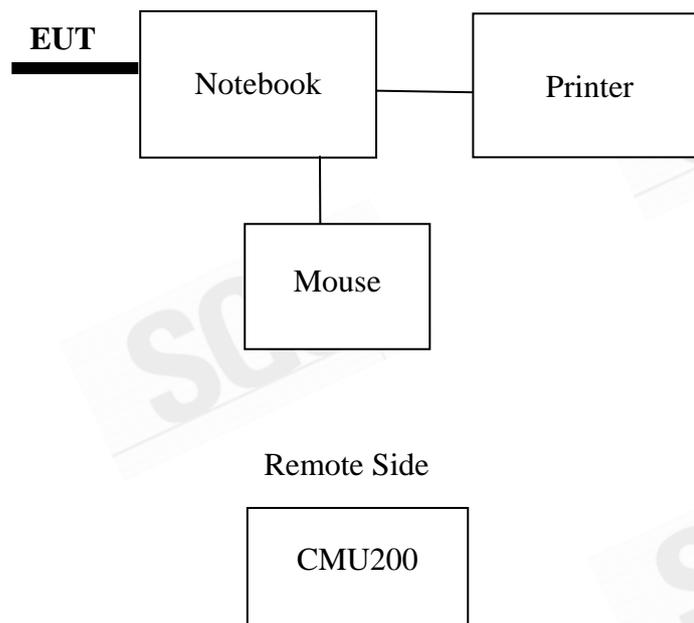


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	UE	ZTE	MF110	N/A	N/A	N/A

Table 2-1 Support Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	Notebook PC	IBM	T43	L3LKVL9	Shielded	Un-shielded
2.	Printer	HP	DJ3820	CN34L181B1	Shielded,	Un-shielded
3.	Mouse	HP	MO42KOA	0307012110	Shielded,	N/A
4.	Radio Communication Analyzer	R&S	CMU200	102189	Shielded	Un-shielded

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3. Summary of Test Results

FCC Rules	Description Of Test	Result
§15.107	Conducted Emission Class B	Compliant
§15.109	Radiated Emission Class B	Compliant

4. Description of test modes

The EUT was stayed in normal operation mode. The data cable was connected to notebook PC and data transferred by program.

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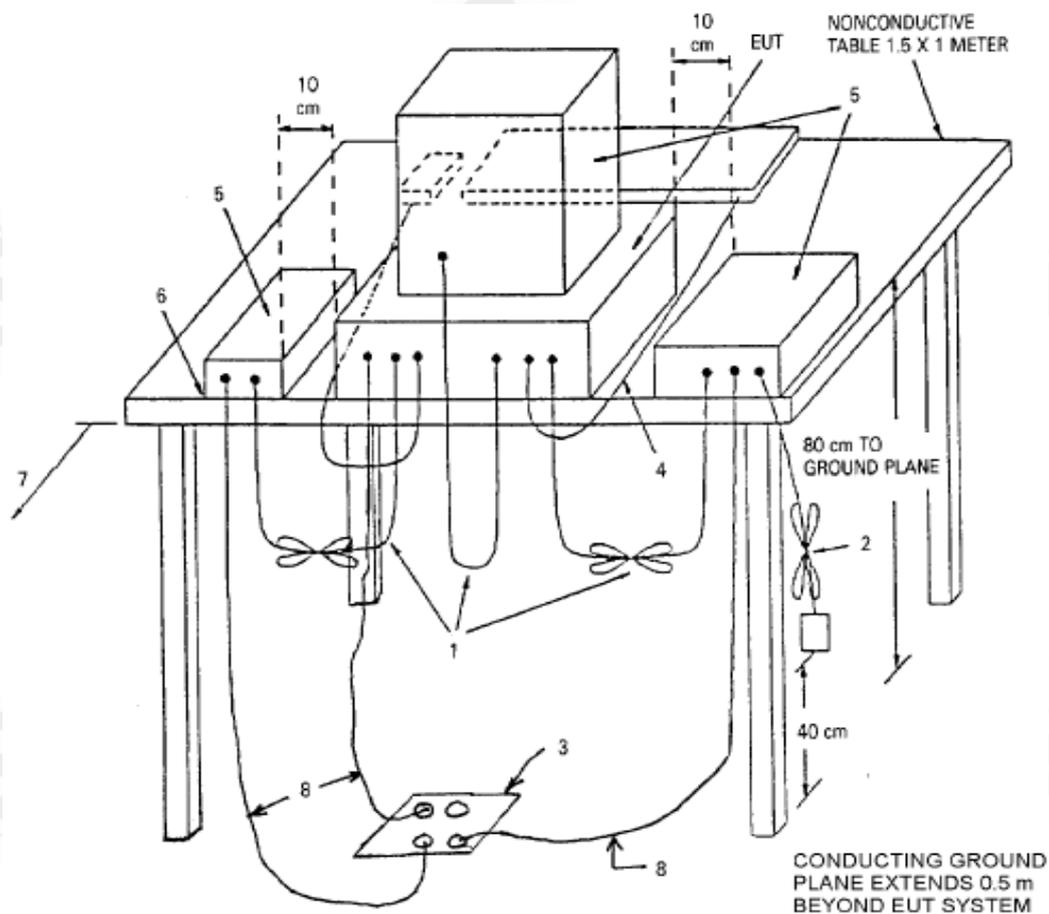
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5. Conducted Emissions Test

5.1. Measurement Procedure:

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

5.2. Test SET-UP (Block Diagram of Configuration)



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LEGEND:

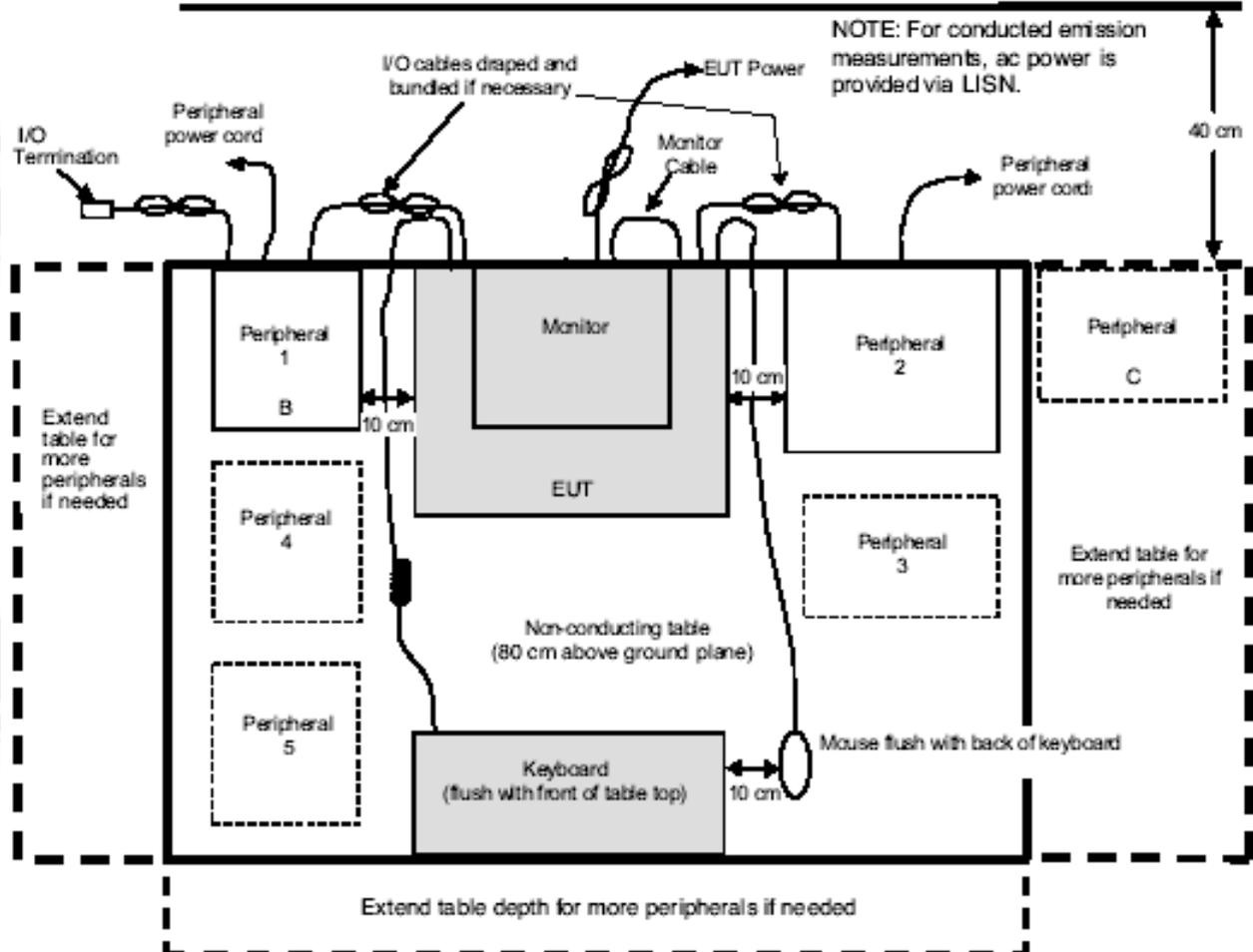
- 1) Interconnecting cables that hang closer than 40 cm to the groundplane shall be folded back and forth in the center, forming a bundle 30 to 40 cm long (see 6.1.4 and 11.2.4).
- 2) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated if required using the correct terminating impedance. The total length shall not exceed 1 m (see 6.1.4).
- 3) If LISNs are kept in the test setup for radiated emissions, it is preferred that they be installed under the groundplane with the receptacle flush with the groundplane (see 6.1.4).
- 4) Cables of hand-operated devices, such as keyboards, mice, etc., shall be placed as for normal use (see 6.2.1.3 and 11.2.4).
- 5) Non-EUT components of EUT system being tested (see also Figure 13).
- 6) Rear of EUT, including peripherals, shall all be aligned and flush with rear of tabletop (see 6.2.1.1 and 6.2.1.2).
- 7) No vertical conducting plane used (see 5.2.2).

Figure 11a—Test arrangement for radiated emissions tabletop equipment

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Vertical conducting plane
 (for conducted emissions; optional for radiated tests)



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5.3. Measurement Equipment Used:

AC POWER LINE CONDUCTED EMISSION EQUIPMENT List					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCS30	828985/004	09/16/2008	09/15/2009
LISN	Rolf-Heine	NNB-2/16Z	99012	02/18/2009	02/17/2010
LISN	FCC	FCC-LISN-50 /250-25-2-01	04034	02/18/2009	02/17/2010
Coaxial Cables	N/A	WK CE Cable	N/A	10/30/2008	10/29/2009

5.4. Measurement Result:

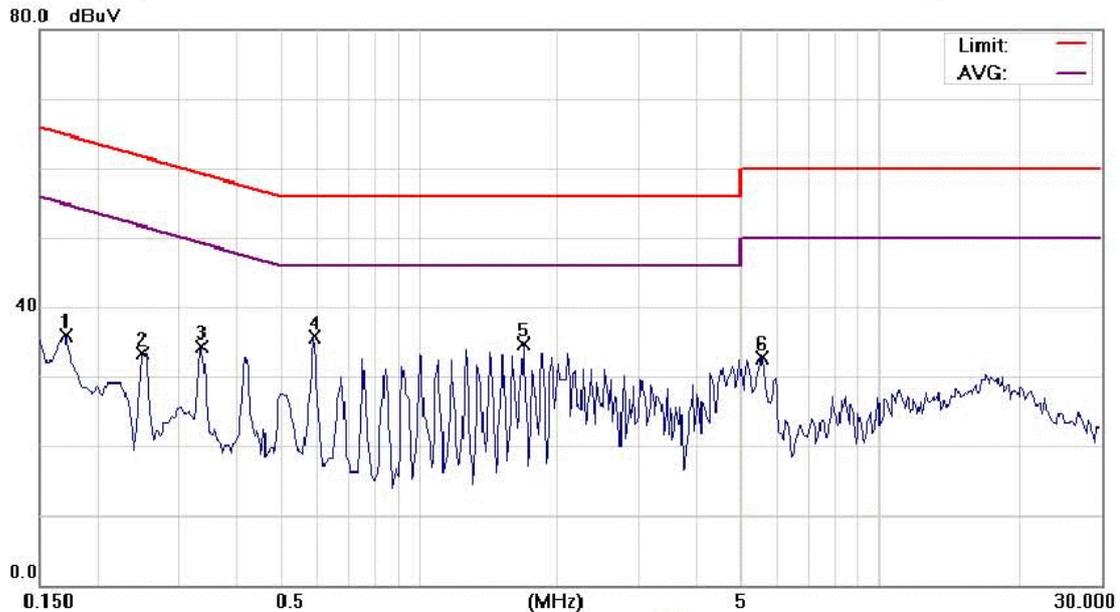
The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Data Link Mode	Test Date:	May. 25, 2009
		Test By:	Brain

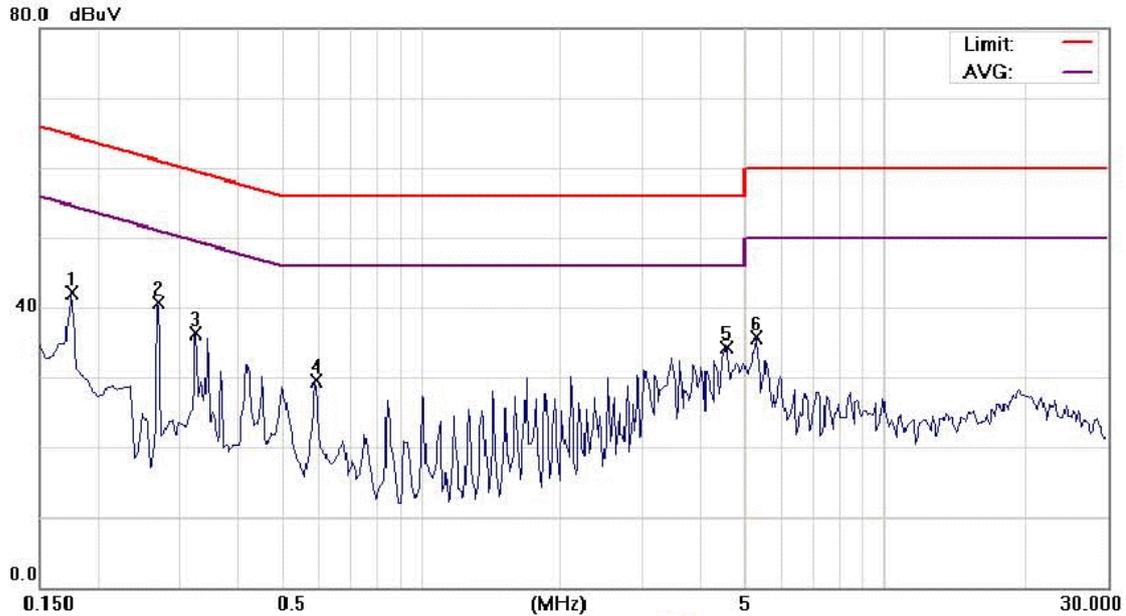


Site SGS CONDUCTED #1	Phase: L1	Temperature: 25 °C
Limit: CISPR22/11 Class B Conduction(QP)	Power: AC 120V/60Hz	Humidity: 62 %
EUT: HSUPA USB Modem	Distance:	Air Pressure: hpa
MN: MF110		
Note: DATA LINK		

No. Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.1700	35.57	0.31	35.88	64.96	-29.08	peak	
2	0.2500	33.17	0.14	33.31	61.76	-28.45	peak	
3	0.3350	34.20	0.11	34.31	59.33	-25.02	peak	
4 *	0.5900	35.70	0.06	35.76	56.00	-20.24	peak	
5	1.6850	34.61	0.04	34.65	56.00	-21.35	peak	
6	5.5600	32.67	0.07	32.74	60.00	-27.26	peak	

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Site: SGS CONDUCTED #1	Phase: N	Temperature: 25 °C
Limit: CISPR22/11 Class B Conduction(QP)	Power: AC 120V/60Hz	Humidity: 62 %
EUT: HSUPA USB Modem	Distance:	Air Pressure: hpa
M/N: MF110		
Note: DATA LINK		

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1750	41.84	0.27	42.11	64.72	-22.61	peak	
2	*	0.2700	40.66	0.12	40.78	61.12	-20.34	peak	
3		0.3250	36.26	0.10	36.36	59.58	-23.22	peak	
4		0.5900	29.51	0.05	29.56	56.00	-26.44	peak	
5		4.5500	34.19	0.05	34.24	56.00	-21.76	peak	
6		5.3000	35.72	0.07	35.79	60.00	-24.21	peak	

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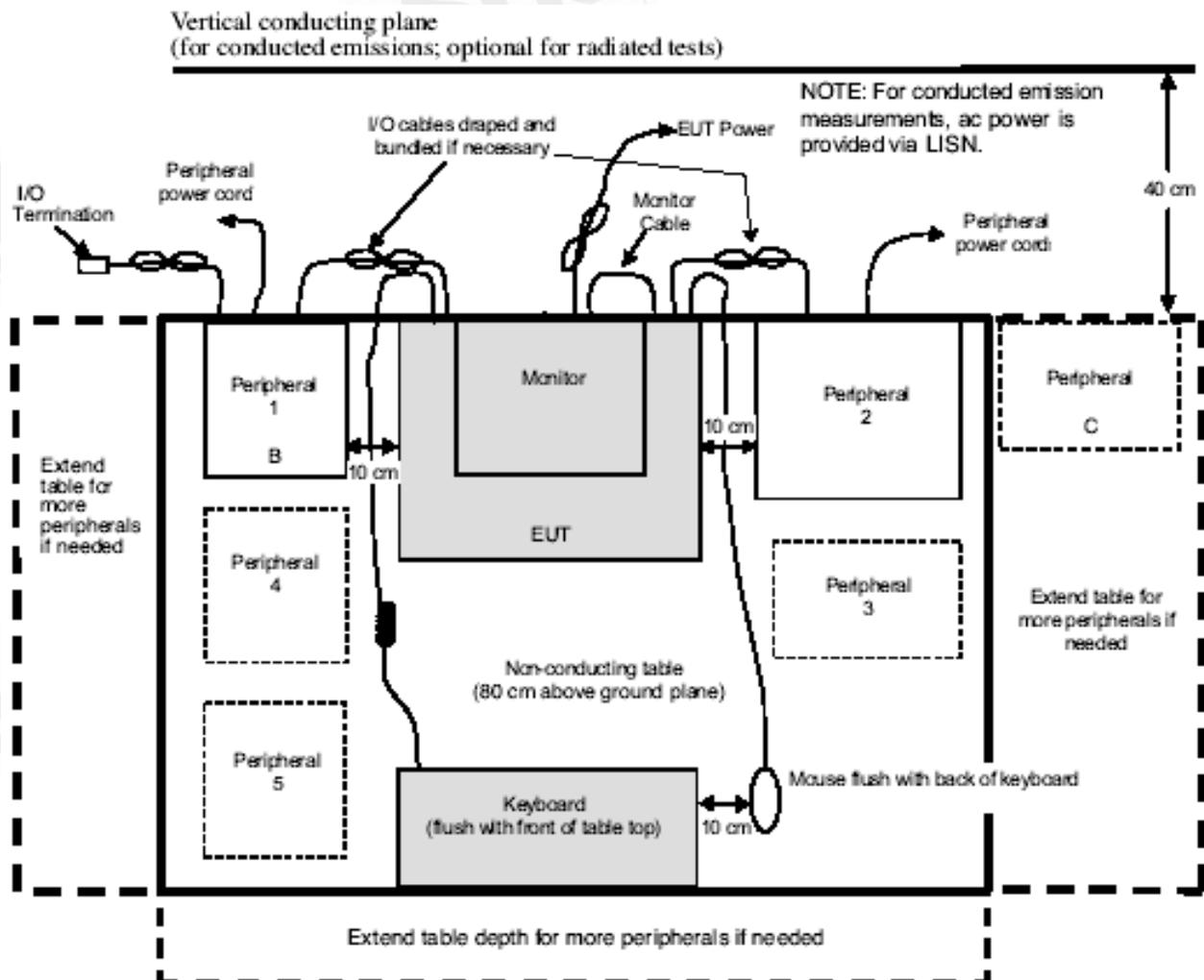
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6. Radiated Emission Test

6.1. Measurement Procedure

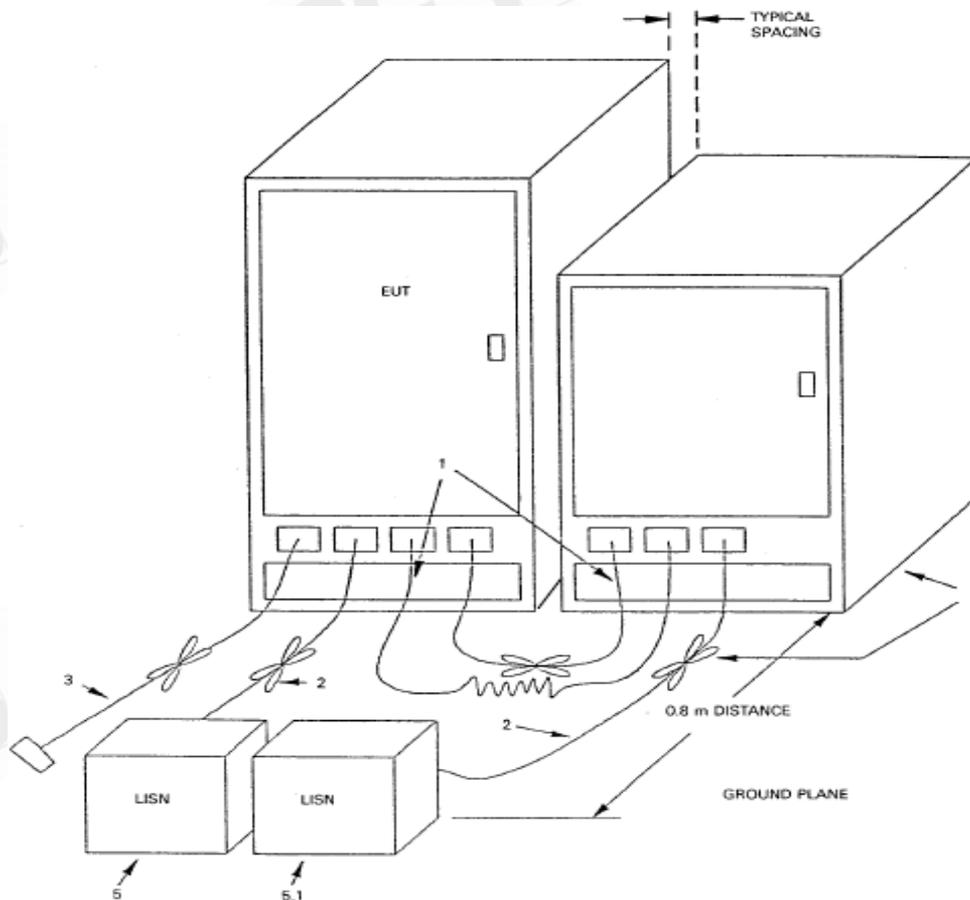
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.

6.2. Test SET-UP (Block Diagram of Configuration)



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LEGEND:

- 1) Excess I/O cables shall be bundled in the center. If bundling is not possible, the cables shall be arranged in serpentine fashion. Bundling shall not exceed 40 cm in length (see 6.1.4 and 11.2.4).
- 2) Excess power cords shall be bundled in the center or shortened to appropriate length (see 7.2.1).
- 3) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. If bundling is not possible, the cable shall be arranged in serpentine fashion (see 6.1.4).
- 4) EUT and all cables shall be insulated, if required, from the groundplane by up to 12 mm of insulating material (see 6.1.4 and 6.2.2).
- 5) EUT connected to one LISN. LISN can be placed on top of, or immediately beneath, the groundplane. 5.1) All other equipment powered from a second LISN or additional LISN(s) (see 5.2.3 and 7.2.1). 5.2) Multiple outlet strip can be used for multiple power cords of non-EUT equipment.

Figure 10b—Test arrangement for conducted emissions floor-standing equipment

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6.3. Measurement Equipment Used:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	02/22/2009	02/21/2010
Bilog Antenna	SCHWAZBECK	VULB9160	9160-3136	11/15/2008	11/14/2009
Horn antenna	SCHWAZBECK	BBHA 9120D	9120D-320	03/14/2009	03/13/2010
Radio Communication Analyzer	R & S	CMU200	102189	05/13/2009	05/13/2010
Radio Communication Analyzer	Anritsu	MT8820A	6200307563	04/16/2008	04/15/2010
DC Block	Agilent	BLK-18	155452	07/05/2009	07/04/2010
800 – 1000MHz Filter	Micro-Tronics	BRM13462	001	01/05/2009	01/04/2010
1800 – 2000MHz Filter	Micro-Tronics	BRM13463	001	01/05/2009	01/04/2010
Pre-Amplifier	Agilent	8447D	1937A02834	11/30/2008	11/29/2009
Pre-Amplifier	HP	8449B	3008A01973	01/05/2009	01/04/2010
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	01/05/2009	01/04/2010
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-0.5M	0.5m	01/05/2009	01/04/2010
3m Site	SGS	966 chamber	N/A	11/08/2008	11/09/2009

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6.4. Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

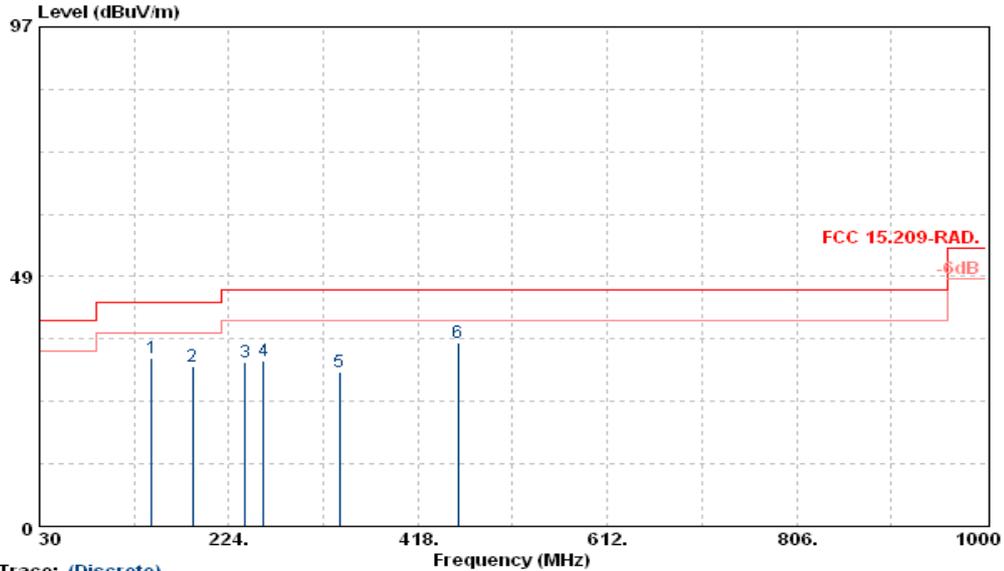
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6.5. Measurement Result:

Test Mode: Charger Mode
 Detector Function: Peak/QP
 Frequency Range: 30MHz-1000MHz

Test Date : May. 25, 2009
 Test By: Brian



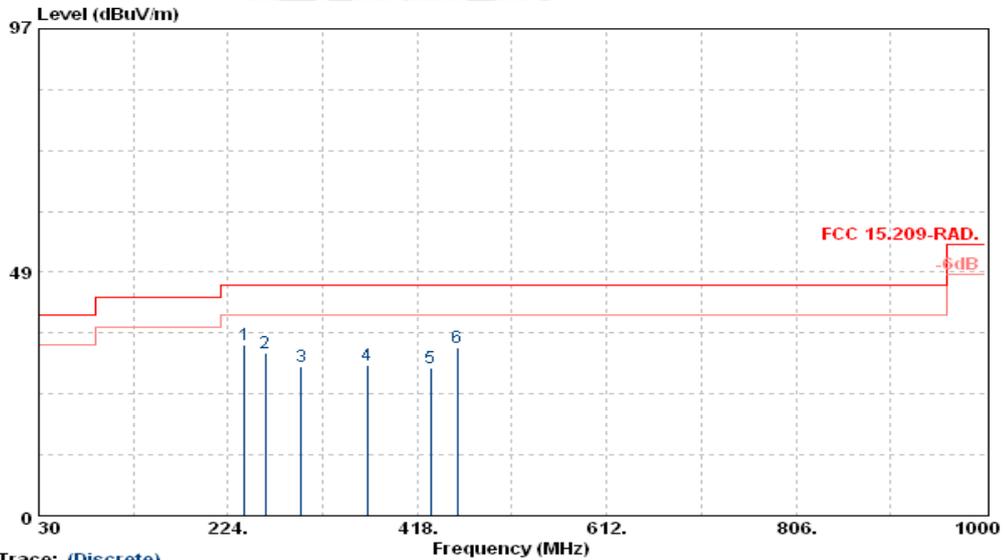
Trace: (Discrete)

Site : RF SITE
 Condition : FCC 15.209-RAD. 3m VULB9160 VERTICAL
 Project No. : ER/2009/20014
 Applicant : ZTE CORPORATION
 EUT Description : HSUPA USB Modem
 EUT Model : MF110
 Test Mode : Data link mode
 Temp./Humid. : 25/65
 Operator : Brian

	Freq MHz	Read Level dBuV	Factor dB/m	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Remark
1 @	145.43	45.76	-13.14	32.62	43.50	-10.88	Peak
2	187.14	46.04	-14.95	31.09	43.50	-12.41	Peak
3	240.49	45.94	-14.11	31.83	46.00	-14.17	Peak
4	259.89	45.82	-13.64	32.18	46.00	-13.82	Peak
5	337.49	42.18	-12.05	30.13	46.00	-15.87	Peak
6	458.74	44.35	-8.61	35.74	46.00	-10.26	Peak

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Trace: (Discrete)

Site : RF SITE
 Condition : FCC 15.209-RAD, 3m VULB9160 HORIZONTAL
 Project No. : ER/2009/20014
 Applicant : ZTE CORPORATION
 EUT Description : HSUPA USB Modem
 EUT Model : MF110
 Test Mode : Data link mode
 Temp./Humid. : 25/65
 Operator : Brian

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1 @	240.49	48.12	-14.11	34.01	46.00	-11.99	Peak
2	261.83	46.00	-13.63	32.37	46.00	-13.63	Peak
3	298.69	42.91	-13.13	29.78	46.00	-16.22	Peak
4	366.59	41.07	-11.17	29.90	46.00	-16.10	Peak
5	431.58	38.59	-9.09	29.50	46.00	-16.50	Peak
6	458.74	42.21	-8.61	33.60	46.00	-12.40	Peak

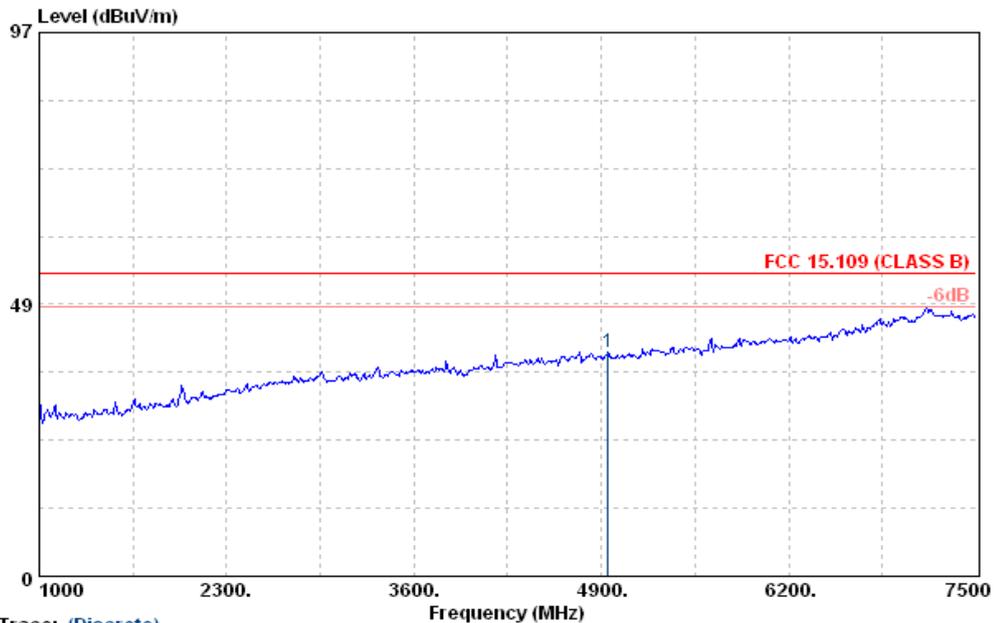
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Measurement Result Above 1GHz :

Test Mode: Data link
 Detector Function: Peak/QP
 Frequency Range: 1GHz-7.5GHz

Test Date : May. 25, 2009
 Test By: Brian

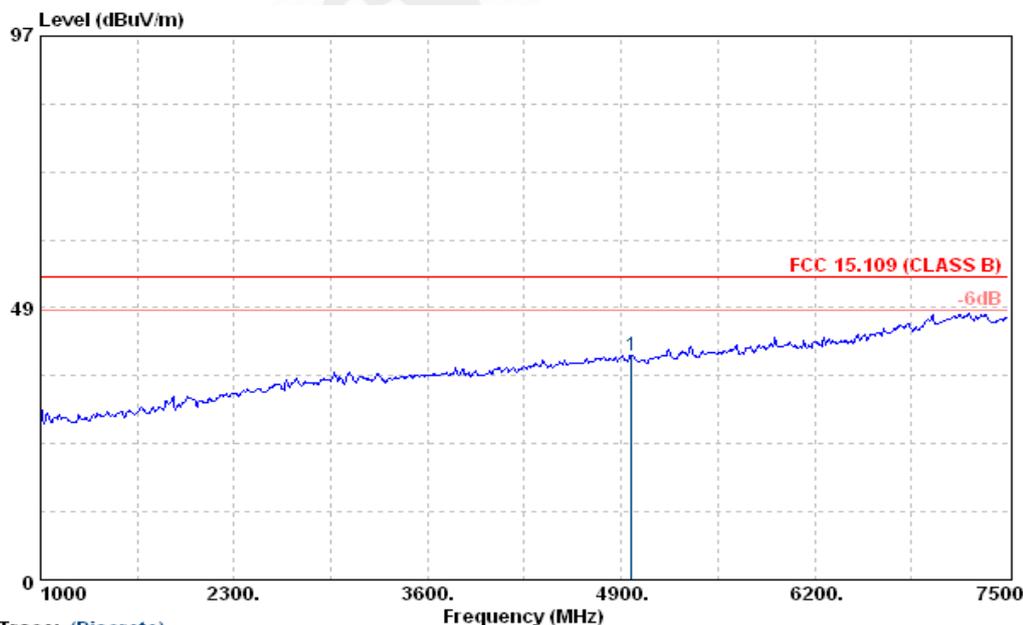


Trace: (Discrete)

Site : RF SITE
 Condition : FCC 15.109 (CLASS B) 3m BBHA91 20D VERTICAL
 Project No. : ER/2009/20014
 Applicant : ZTE CORPORATION
 EUT Description : HSUPA USB Modem
 EUT Model : MF110
 Test Mode : Data link mode
 Temp./Humid. : 25/65
 Operator : Brian

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1 @	4945.50	33.74	6.32	40.06	53.98	-13.92	Peak

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Trace: (Discrete)

Site : RF SITE
 Condition : FCC 15.109 (CLASS B) 3m BBHA9120D HORIZONTAL
 Project No. : ER/2009/20014
 Applicant : ZTE CORPORATION
 EUT Description : HSUPA USB Modem
 EUT Model : MF110
 Test Mode : Data link mode
 Temp./Humid. : 25/65
 Operator : Brian

	Freq	Read Level	Factor	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1 @	4971.50	33.69	6.39	40.08	53.98	-13.90	Peak

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Datas of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

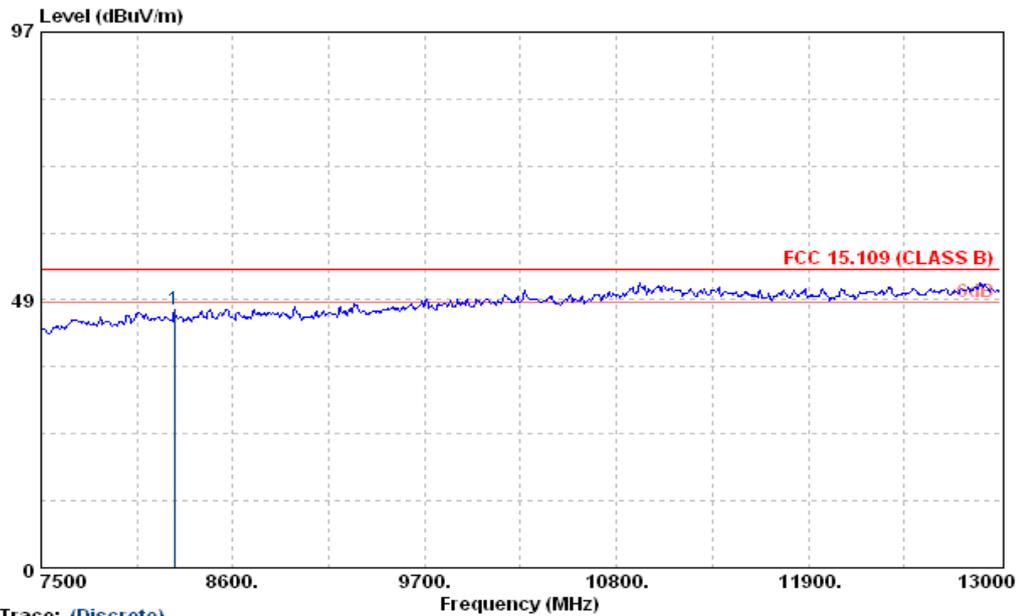
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Measurement Result:

Test Mode: Data link
 Detector Function: Peak/QP
 Frequency Range: 7.5GHz-13MHz

Test Date : May. 25, 2009
 Test By: Brian



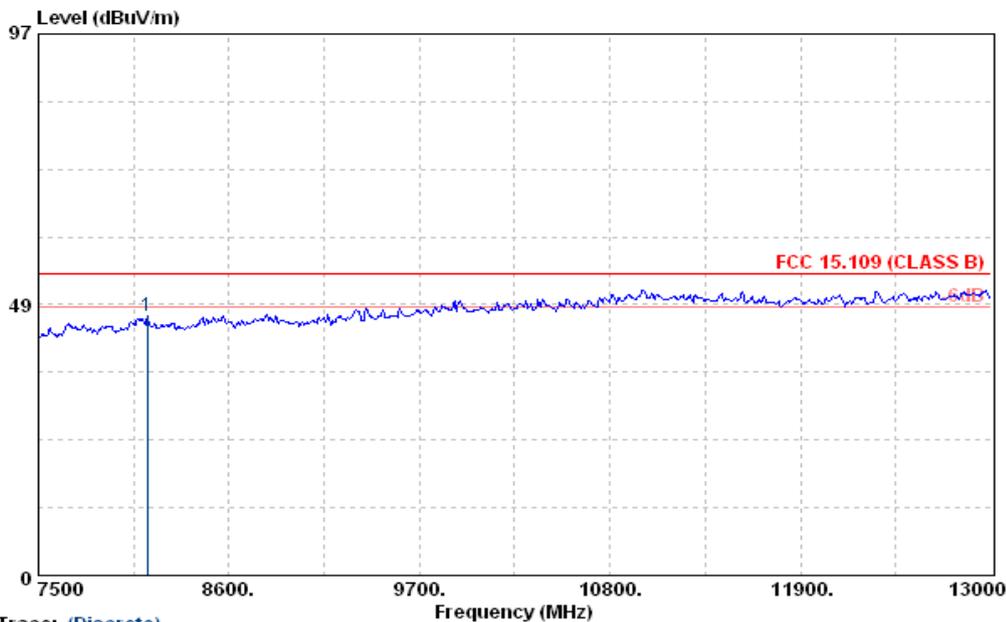
Trace: (Discrete)

Site : RF SITE
 Condition : FCC 15.109 (CLASS B) 3m BBHA9120D VERTICAL
 Project No. : ER/2009/20014
 Applicant : ZTE CORPORATION
 EUT Description : HSUPA USB Modem
 EUT Model : MF110
 Test Mode : Data link mode
 Temp./Humid. : 25/65
 Operator : Brian

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1 @	8264.50	32.18	14.65	46.83	53.98	-7.15	Peak

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Trace: (Discrete)

Site : RF SITE
 Condition : FCC 15.109 (CLASS B) 3m BBHA9120D HORIZONTAL
 Project No. : ER/2009/20014
 Applicant : ZTE CORPORATION
 EUT Description : HSUPA USB Modem
 EUT Model : MF110
 Test Mode : Data link mode
 Temp./Humid. : 25/65
 Operator : Brian

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1 @	8127.00	32.09	14.36	46.45	53.98	-7.53	Peak

Remark :

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Datas of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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APPENDIX 1

PHOTOGRAPHS OF SET UP

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Radiated Emission Test Setup Photo (Data Link)



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Conducted Emission Set up Photo (Data link)



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APPENDIX 2

PHOTOGRAPHS OF EUT

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Front View of EUT



Back View of EUT



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Side View of EUT – 1



Side View of EUT – 2



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Side View of EUT – 3



Side View of EUT – 4



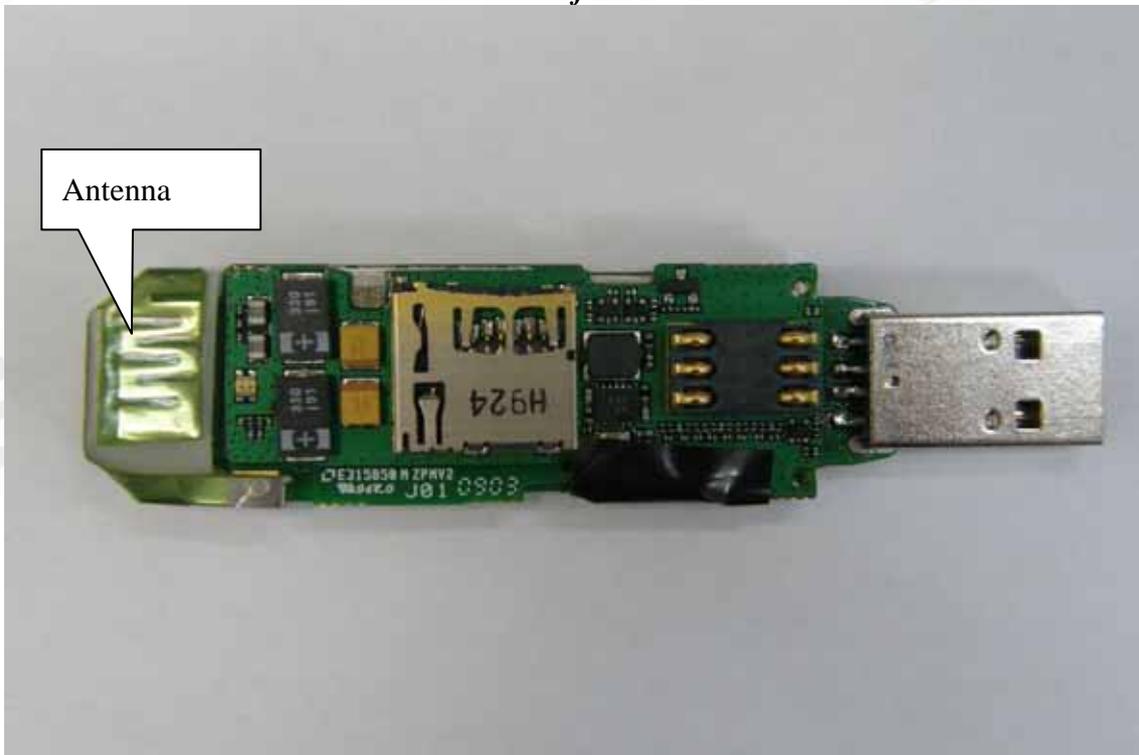
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Open View of EUT – 1



Internal of EUT – 1



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Internal of EUT – 2



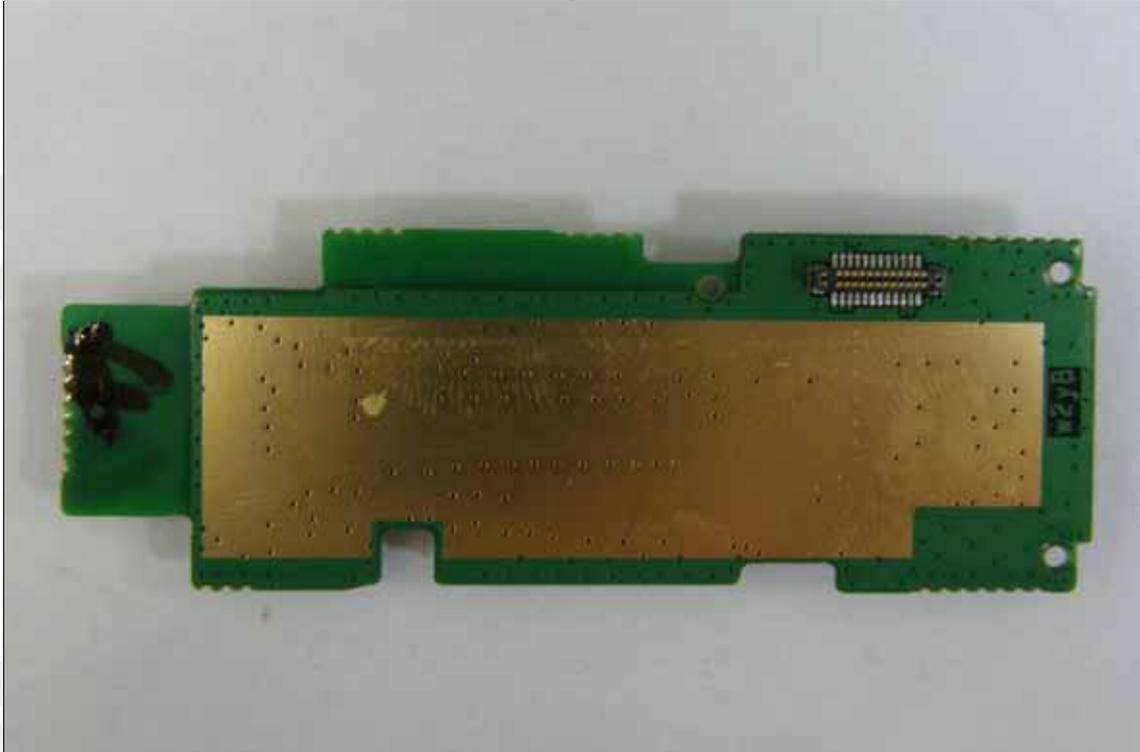
Internal of EUT – 3



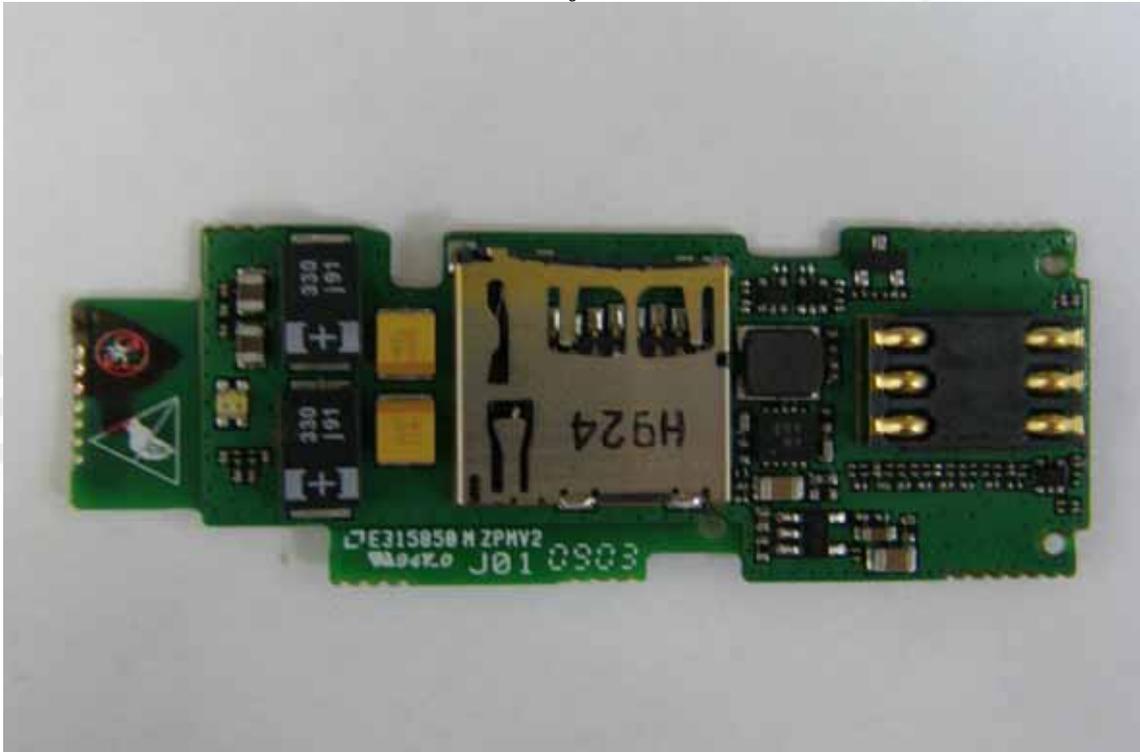
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Internal of EUT – 4



Internal of EUT – 5



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APPENDIX 3

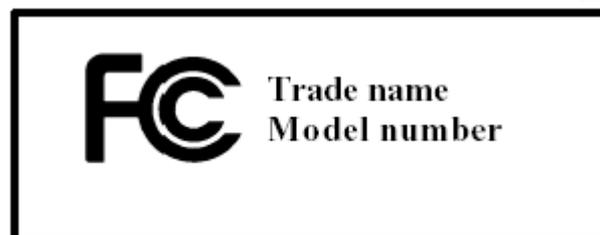
LABELING REQUIREMENTS

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§15.19 Labeling requirements.

- (a) In addition to the requirements in part 2 of this chapter, a device subject to certification, or verification, or verification shall be labeled as follows:
- (1) Receivers associated with the operation of a licensed radio service, e.g., FM broadcast under part 73 of this chapter, land mobile operation under part 90, etc., shall bear the following statement in a conspicuous location on the device:
This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.
 - (2) A stand-alone cable input selector switch, shall bear the following statement in a conspicuous location on the device:
This device is verified to comply with the part 15 of the FCC Rules for use with cable television service.
 - (3) All other devices shall bear the following statement in a conspicuous location on the device:
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received including interference that may cause undesired operation.
 - (4) Where a device is constructed in two or more sections connected by wires and marketed together, the statement specified under paragraph (a) of this section is required to be affixed only to the main control unit.
 - (5) When the device is so small or for such use that it is not practicable to place the statement specified under paragraph (a) of this section on it, the information required by this paragraph shall be placed in a prominent location in the instruction manual or pamphlet supplied to the user or, alternatively, shall be placed on the container in which the device is marketed. However, the FCC identifier or the unique identifier, as appropriate, must be displayed on the device.
- (b) Products subject to authorization under a Declaration of Conformity shall be labeled as follows:
- (1) The label shall be located in a conspicuous location on the device and shall contain the unique identification described in §2.1074 of this chapter and the following logo:
 - (i) If the product is authorized based on testing of the product or system; or



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- (ii) If a personal computer is authorized based on assembly using separately authorized components, in accordance with §15.101(c) (2) or (c)(3), and the resulting product is not separately tested:



- (2) Label text information should be in a size of type large enough to be readily legible, consistent with the dimensions of the equipment and the label. However, the type size for the text is not required to be larger than eight points.
- (3) When the device is so small or for such use that it is not practicable to place the statement specified under paragraph (b)(1) of this section on it, such as for a CPU board or a plug-in circuit board peripheral device, the text associated with the logo may be placed in a prominent location in the instruction manual or pamphlet supplied to the user. However, the unique identification (trade name and model number) and the logo must be displayed on the device.
- (4) The label shall not be a stick-on, paper label. The label on these products shall be permanently affixed to the product and shall be readily visible to the purchaser at the time of purchase, as, described in §2.925(d) of this chapter. "Permanently affixed" means that the label is etched, engraved, stamped, silk screen, indelibly printed, or otherwise permanently marked on a permanently attached part of the equipment or on a nameplate of metal, plastic, or other material fastened to the equipment by welding, riveting, or a permanent adhesive. The label must be designed to last the expected lifetime of the equipment in the environment in which the equipment may be operated and must not be readily detachable.

~ End of Report ~

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